

Preparation of adiponitrile by hydrocyanating 1,3-butadiene

Abstract

- 5 A process is described for preparing adiponitrile by hydrocyanating 1,3-butadiene over a catalyst, by, in a first process step, hydrocyanating 1,3-butadiene to 3-pentenitrile over at least one nickel(0) catalyst, and, in a second process step, hydrocyanating 3-pentenitrile to adiponitrile over at least one nickel(0) catalyst with addition of at least one Lewis acid, wherein at least one of the at least one nickel(0) catalysts used in
- 10 the particular process steps is transferred into the other process step.